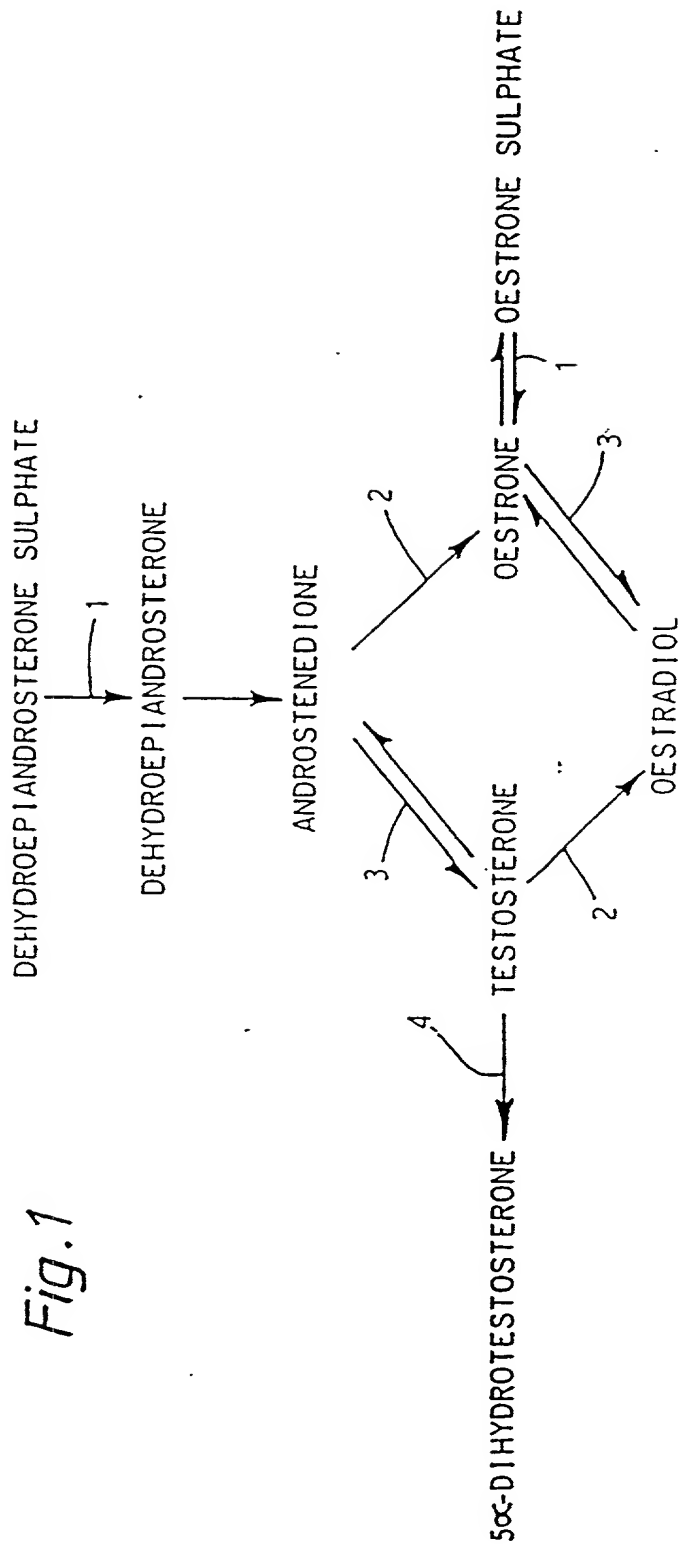


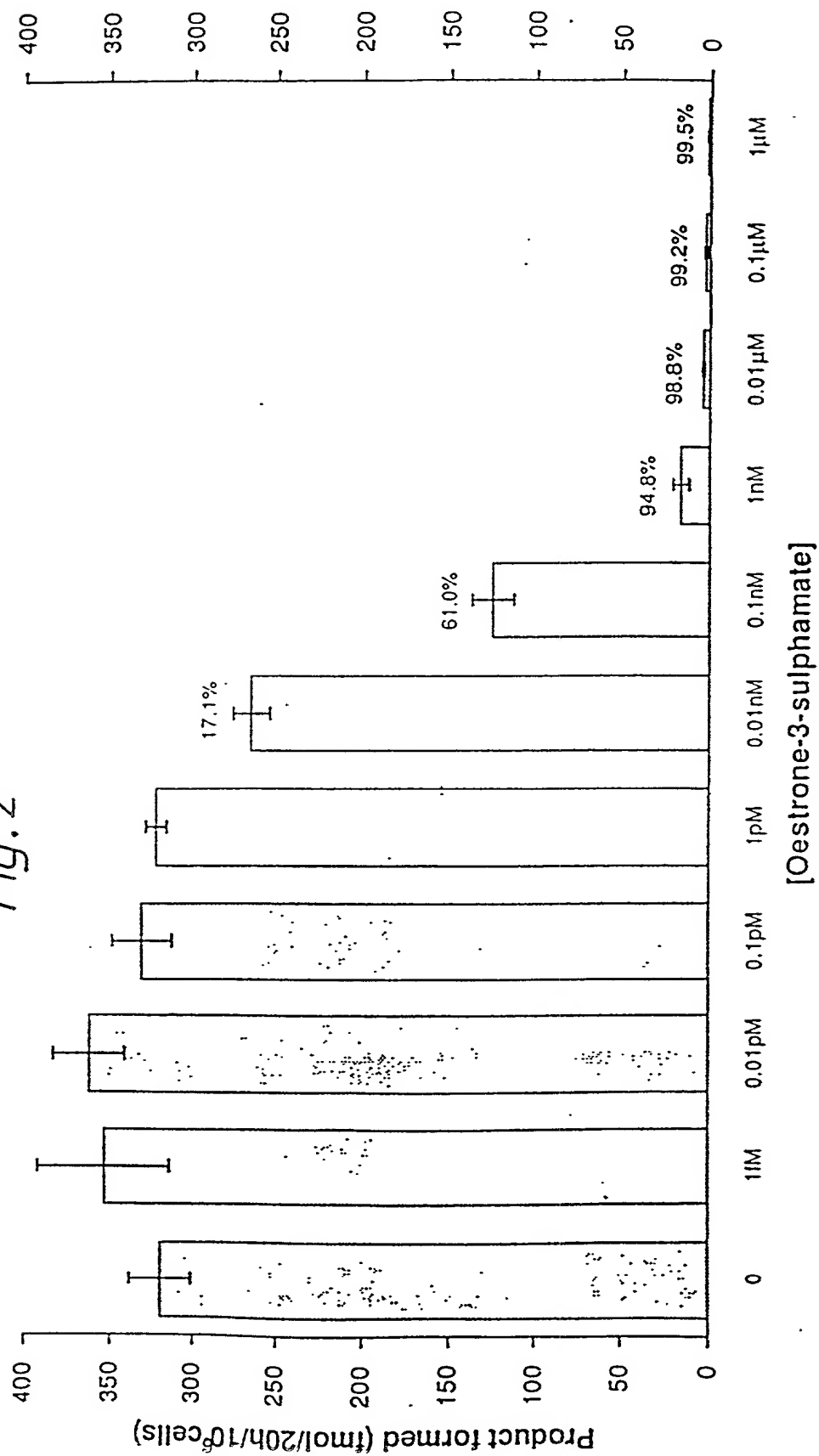
Fig.1



KEY ENZYMES IN STEROIDOGENESIS:-

1. SULPHATASE 2. AROMATASE 3. DEHYDROGENASE 4. 5αREDUCTASE

Fig. 2



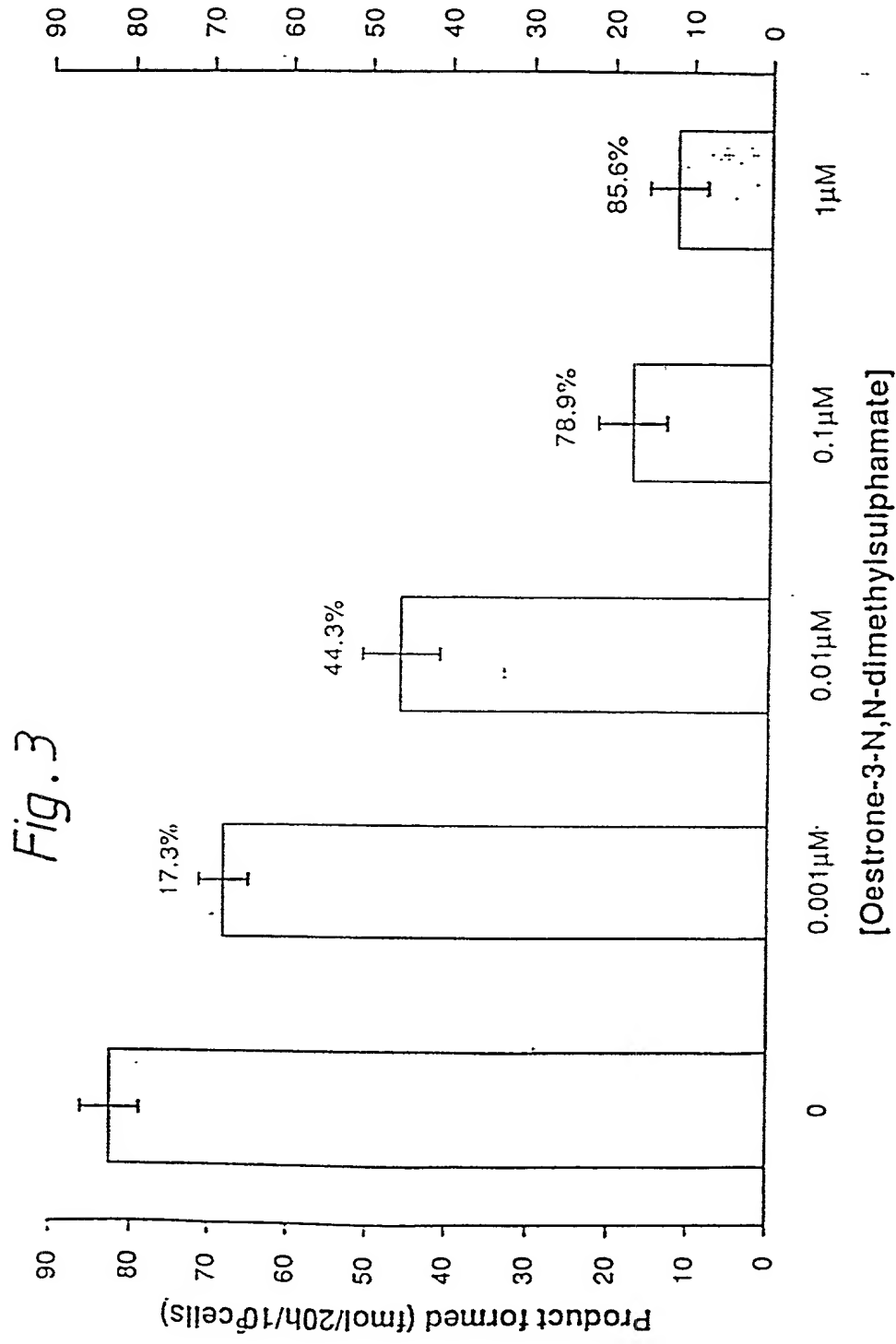
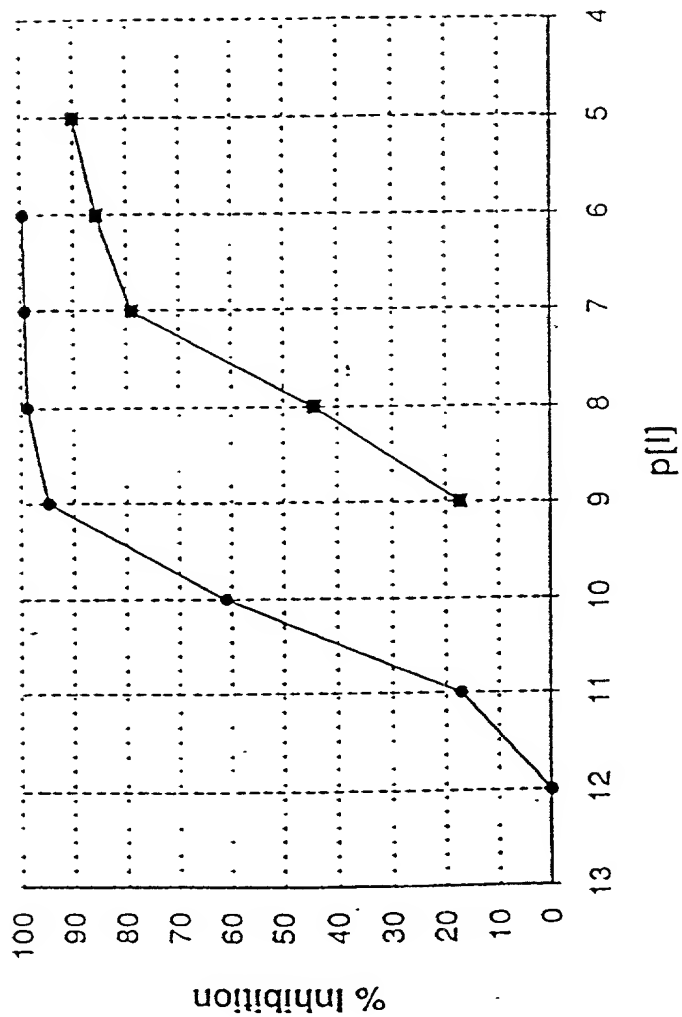
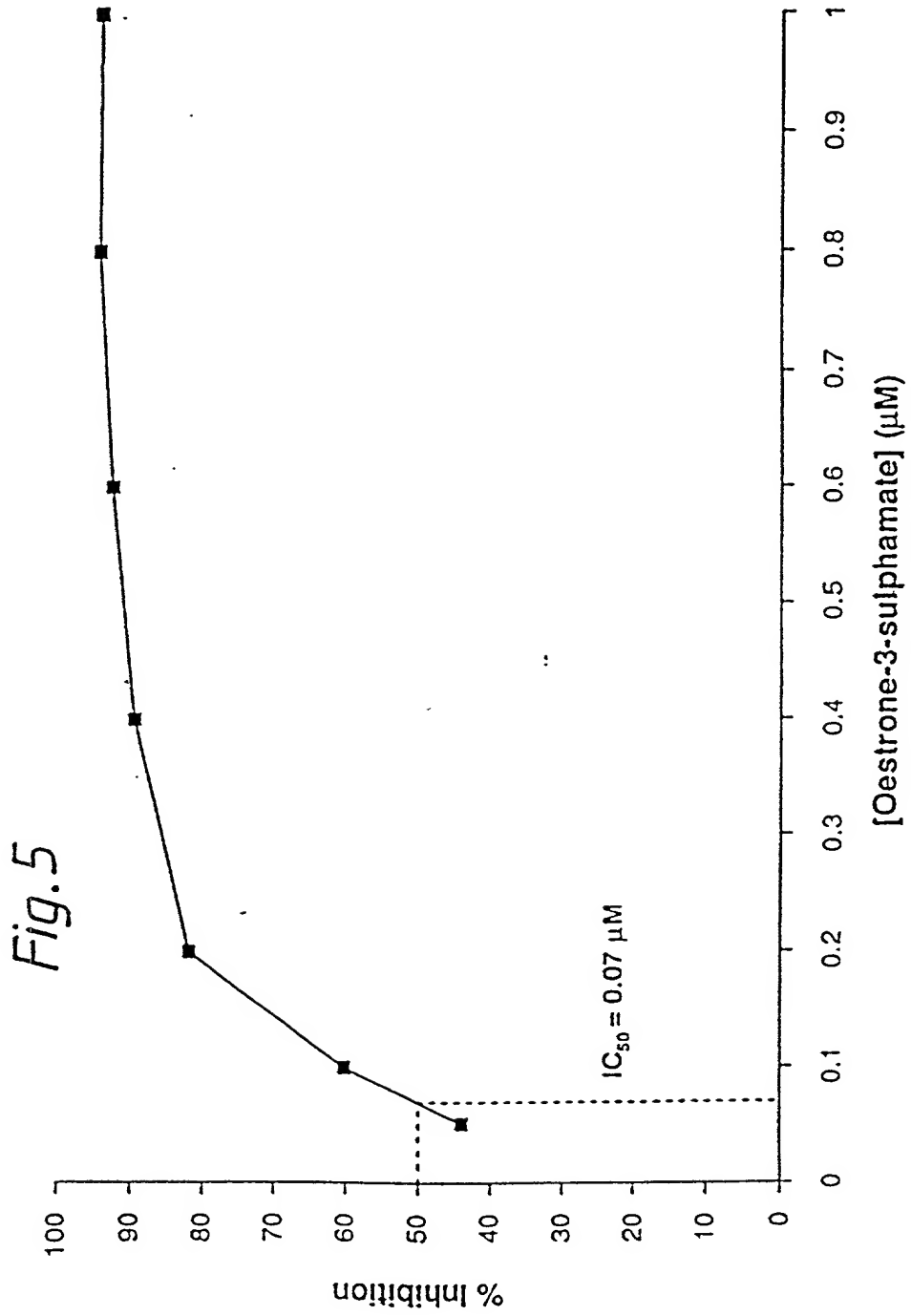


Fig. 4





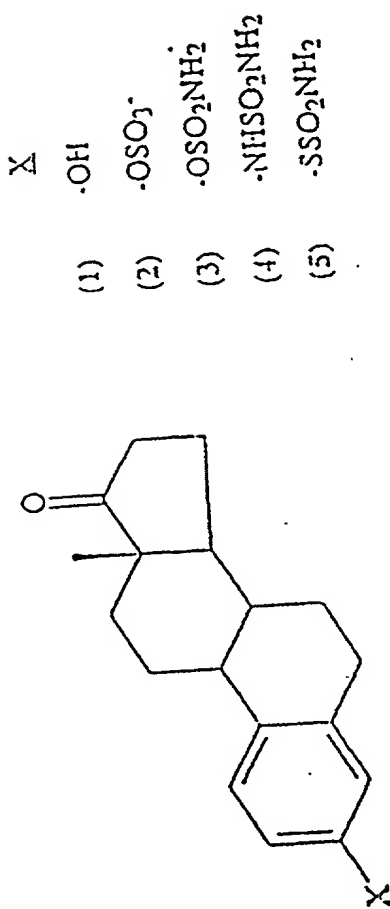
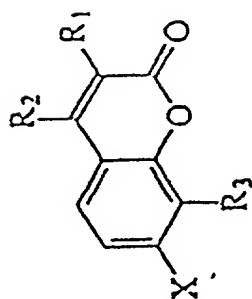


FIG. 6



	X	R ₁	R ₂	R ₃
(11)	-OH	H	H	H
(12)	-OSO ₃ ⁻	H	CH ₃	H
(13)	-OSO ₂ NH ₂	H	H	H
(14)	-OSO ₂ NH ₂	H	CH ₃	H
(15)	-OSO ₂ NH ₂	CH ₃	CH ₃	CH ₃
(16)	-OSO ₂ NH ₂	H	CF ₃	H

FIG. 7

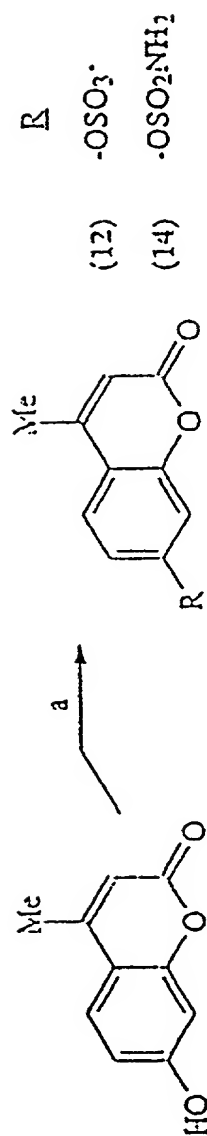


FIG. 8

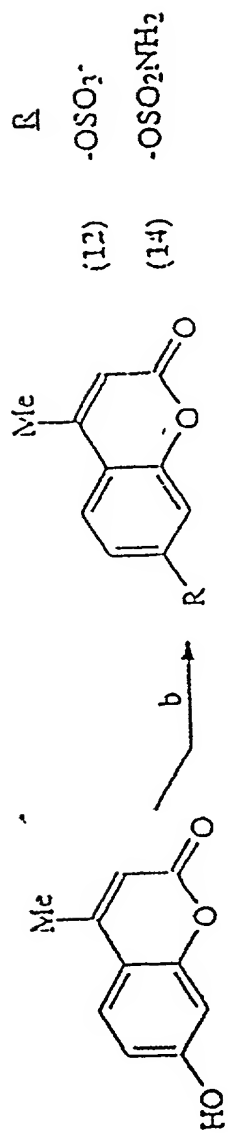


FIG. 9

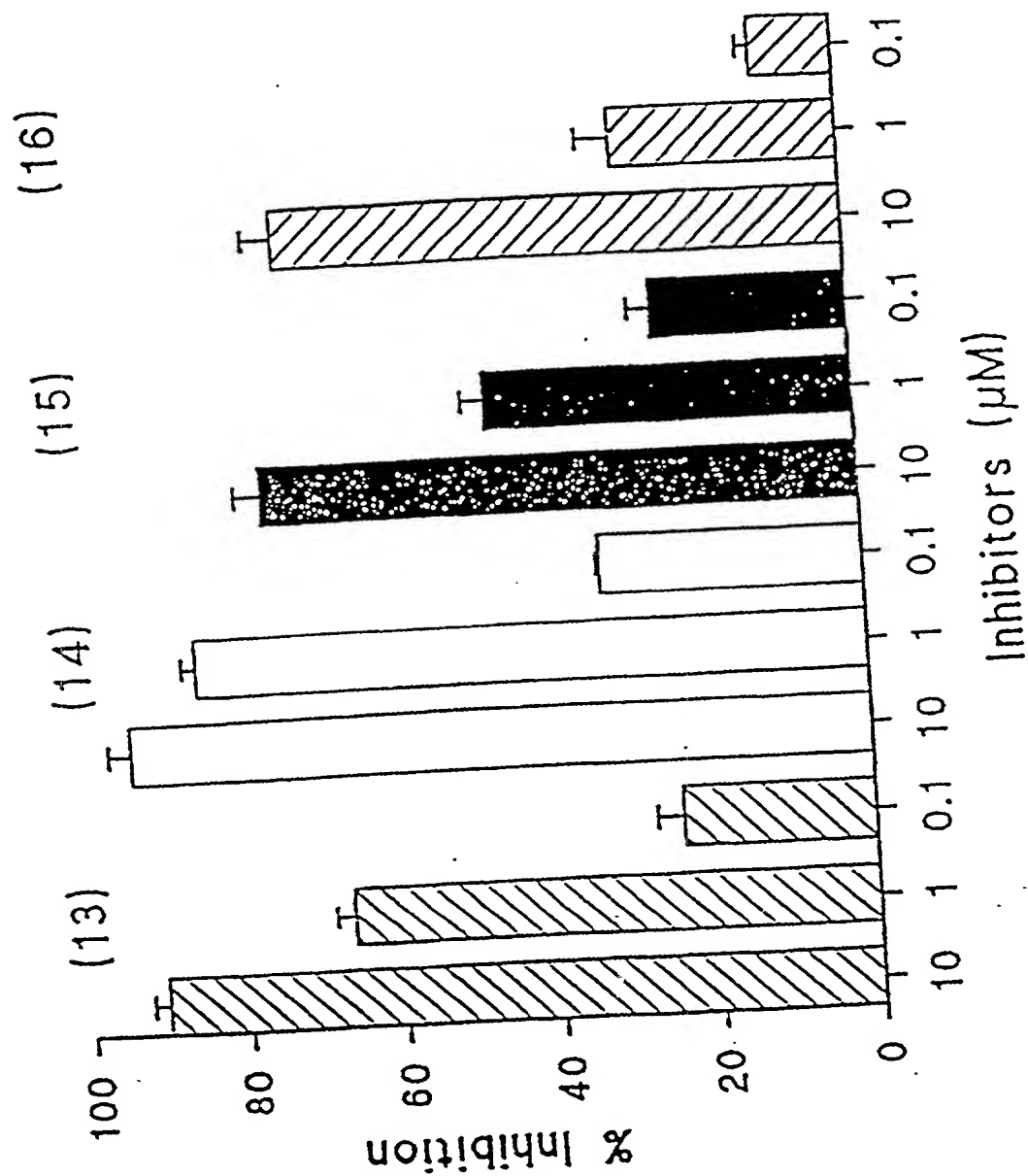


FIG. 10

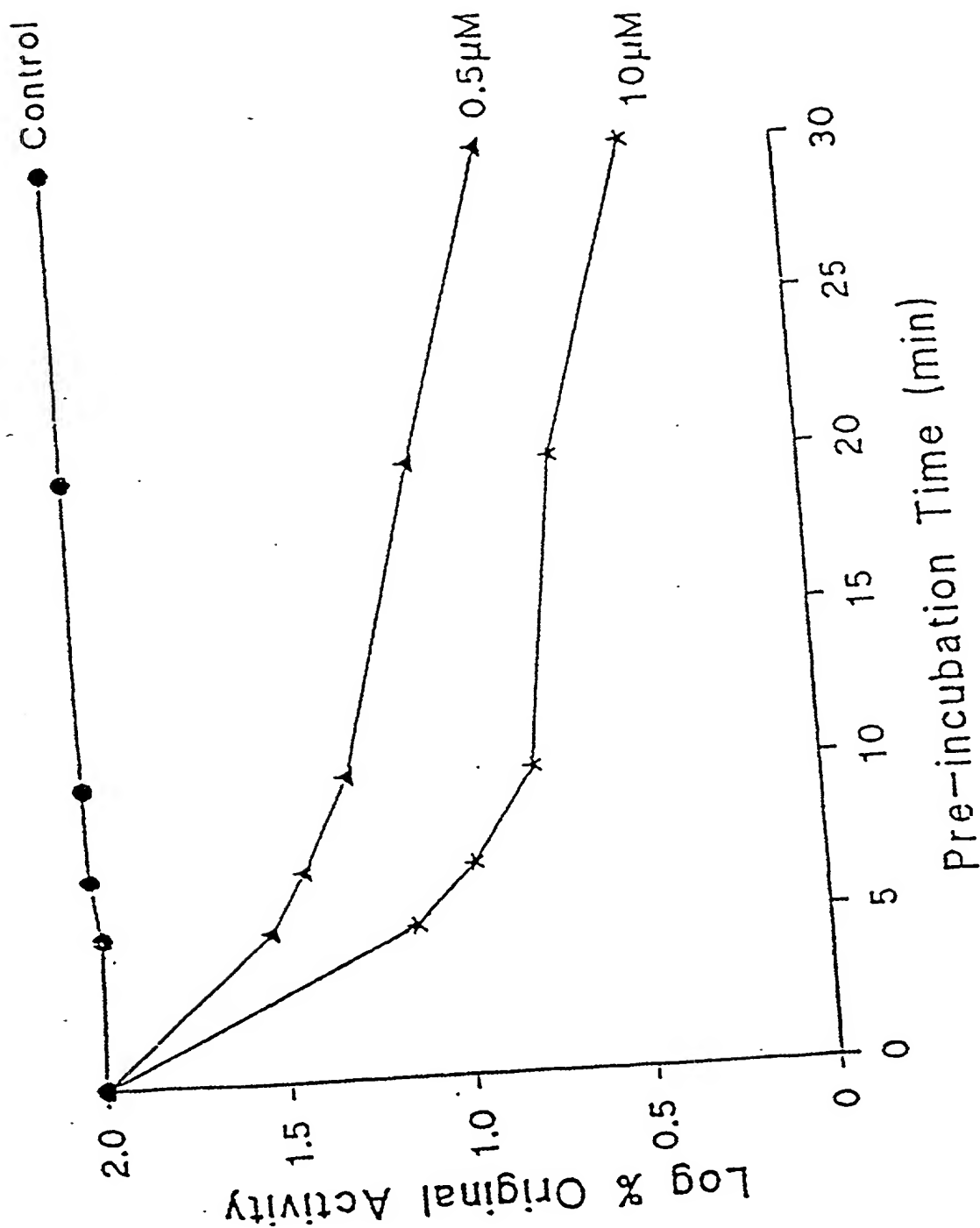


FIG. 11

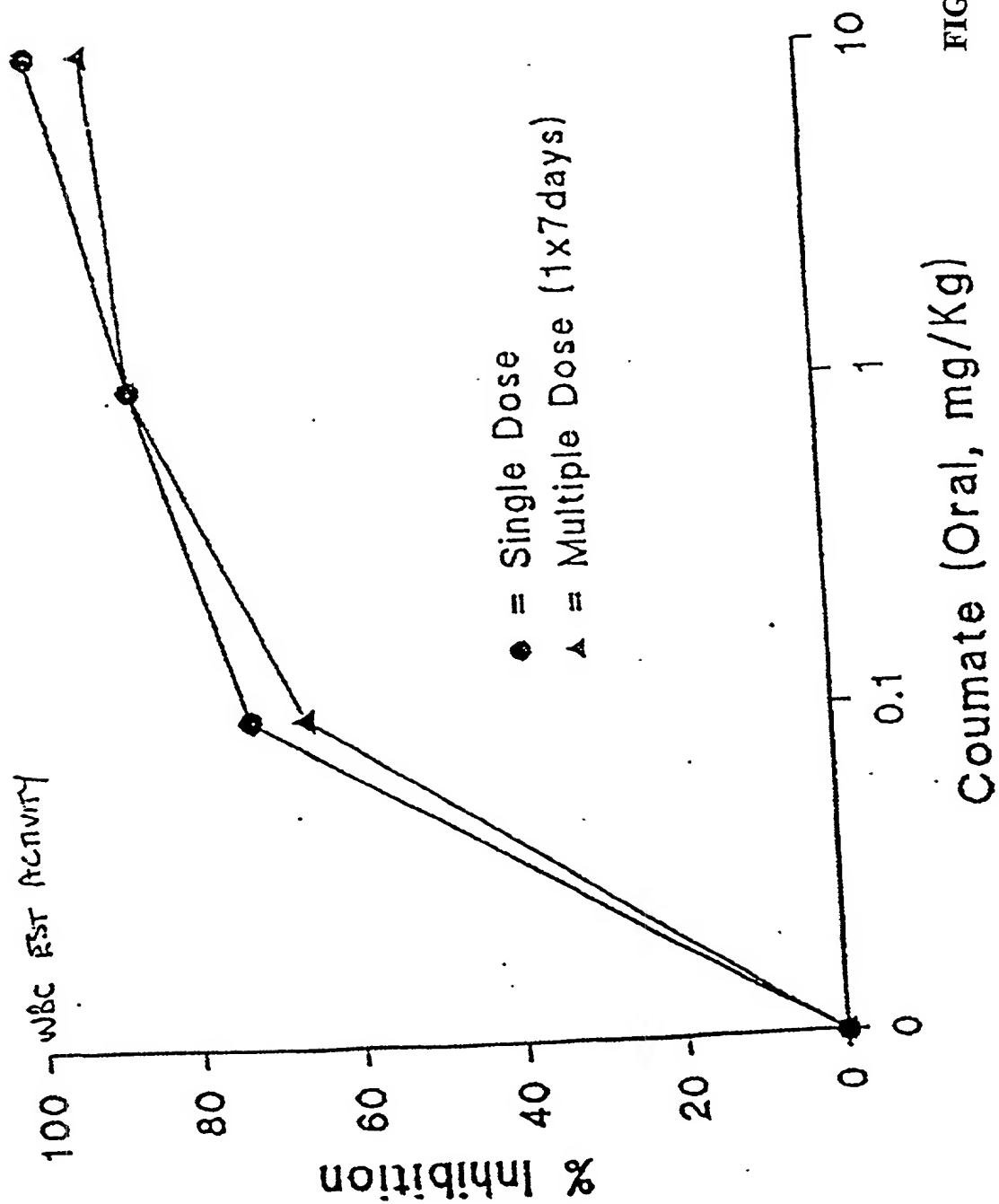


FIG. 12

FIG. 13

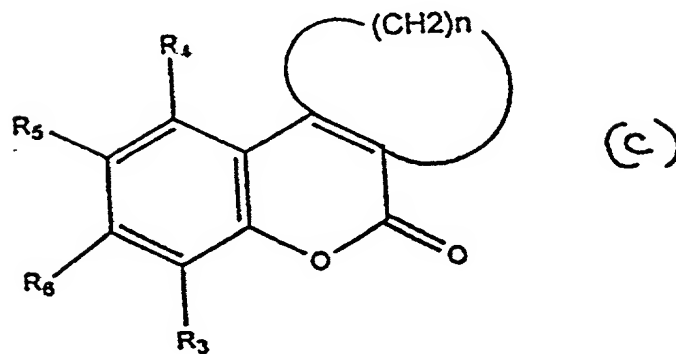
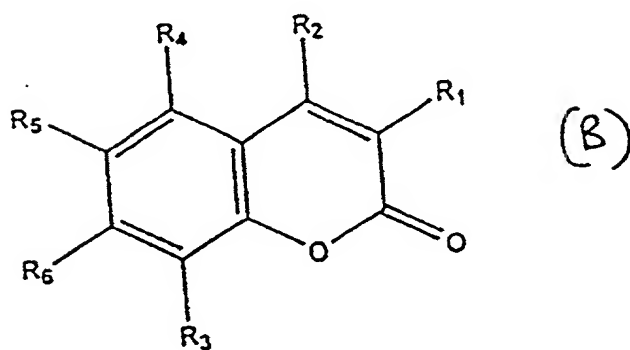
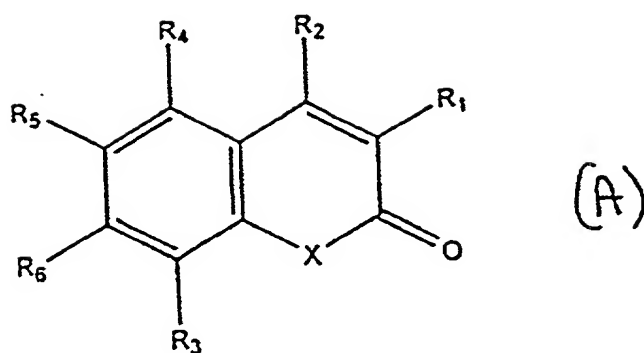


FIG. 14

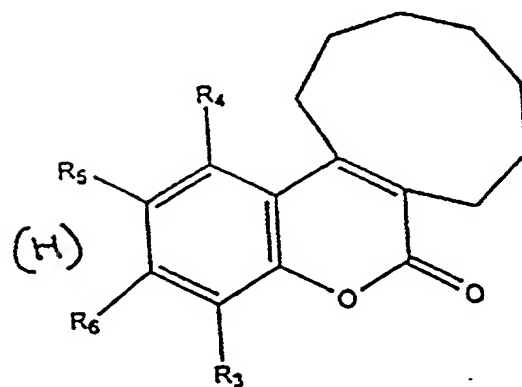
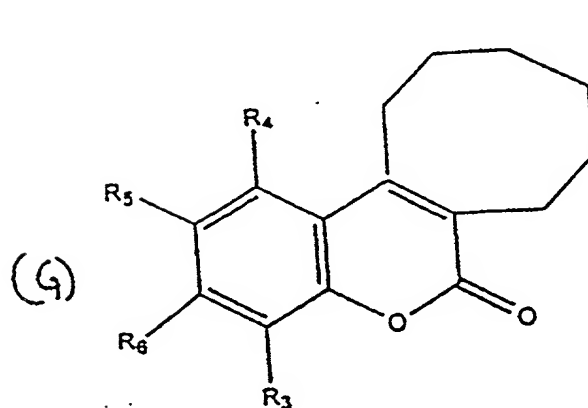
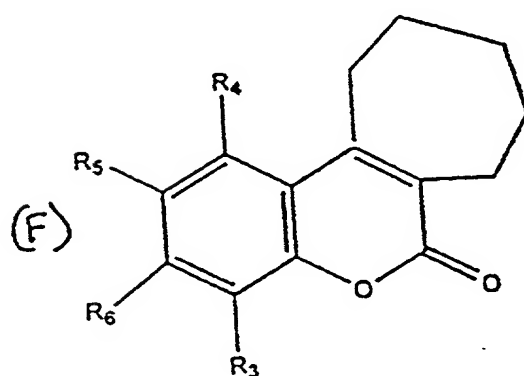
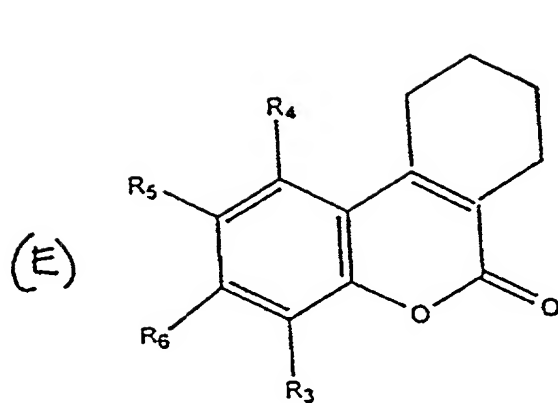
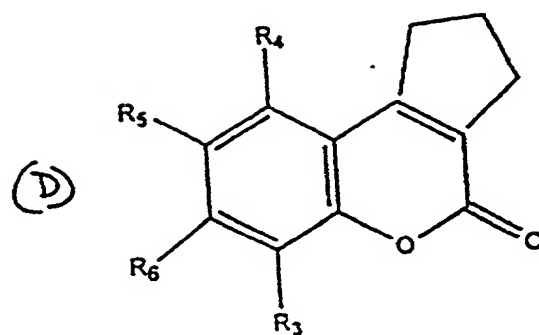
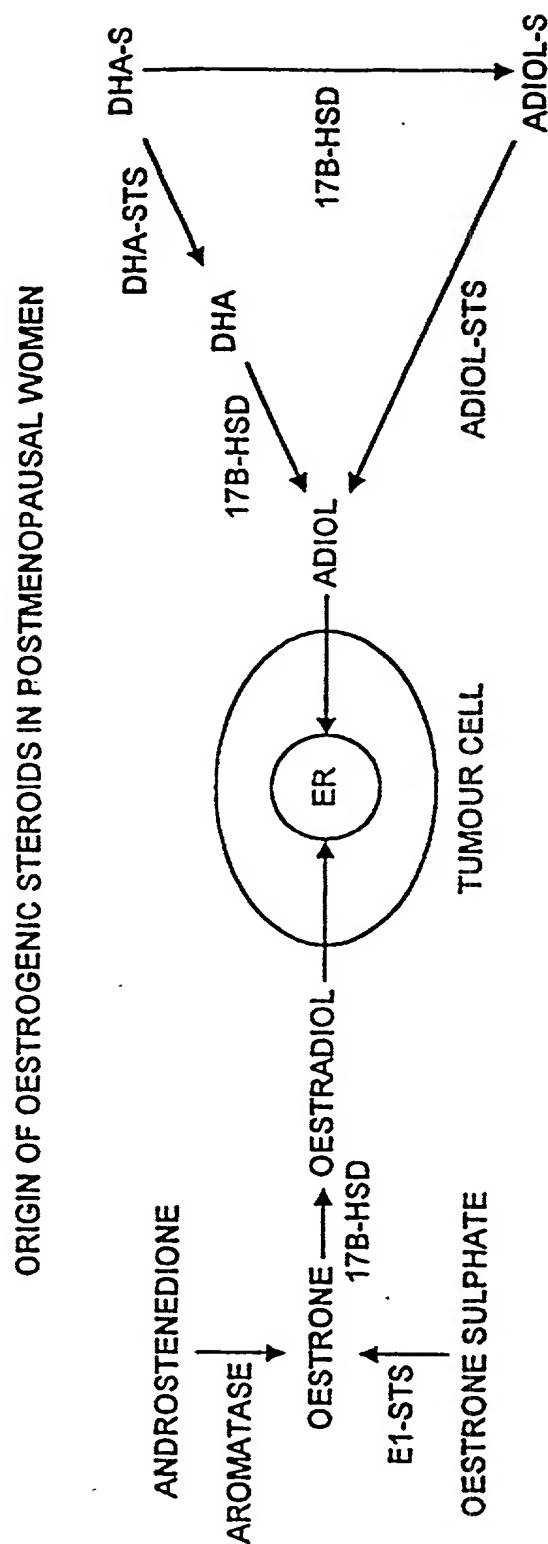
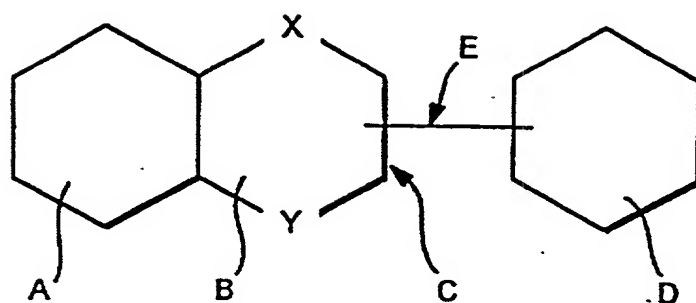


FIG. 15



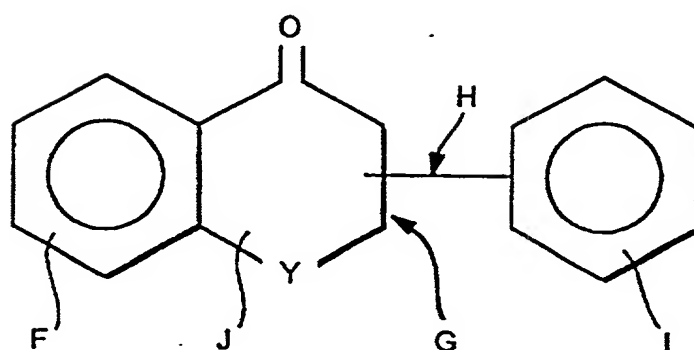
ER=OESTROGEN RECEPTOR, DHA / -S=DEHYDROEPIANDROSTERONE / -SULPHATE, ADIOL=ANDROSTENEDIOL, E1-STS=OESTRONE SULPHATASE, DHA -STS=DHA-SULPHATASE, ADIOL-STS=ADIOL SULPHATASE, 17B-HSD=OESTRADIOL 17B-HYDROXYSTEROID DEHYDROGENASE

FIG. 16a



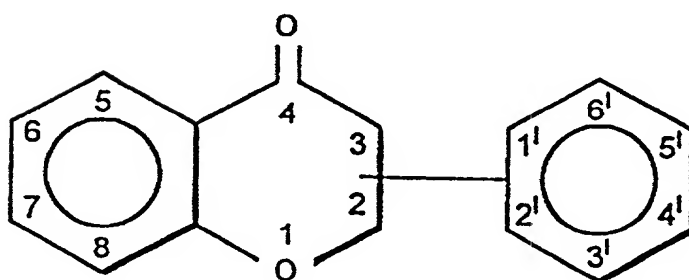
I

FIG. 16b

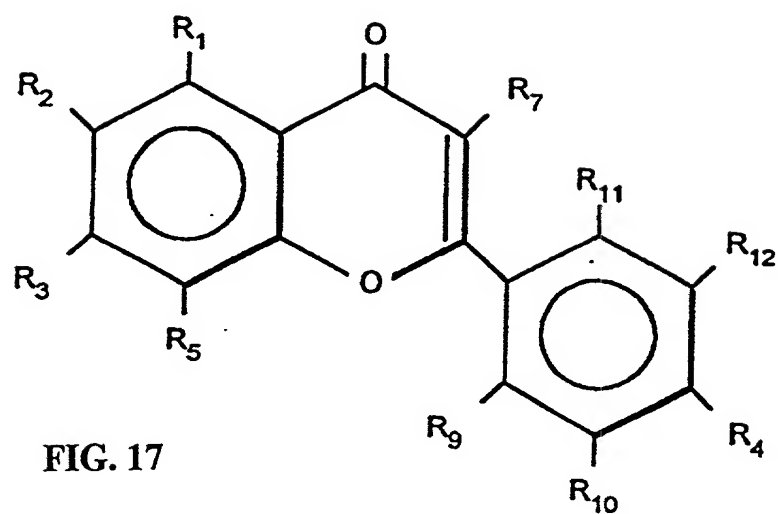


II

FIG. 16c

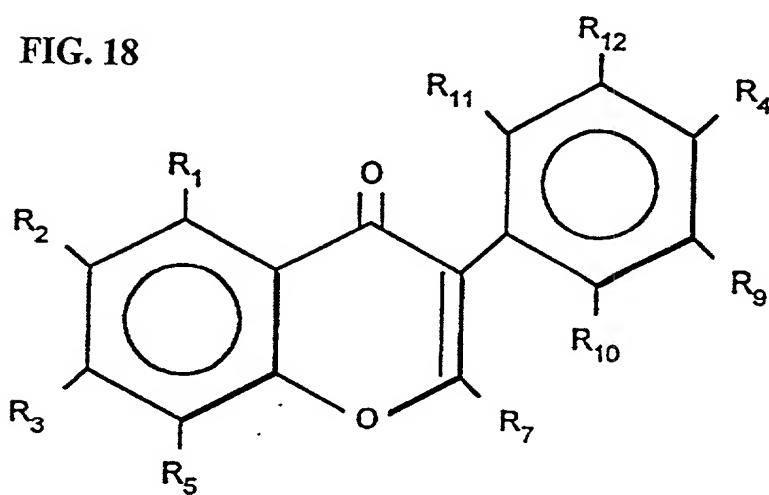


III

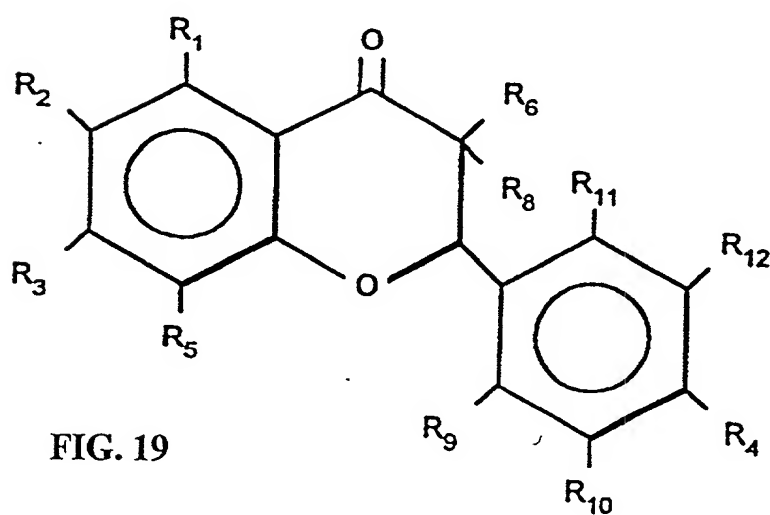


IV

FIG. 17



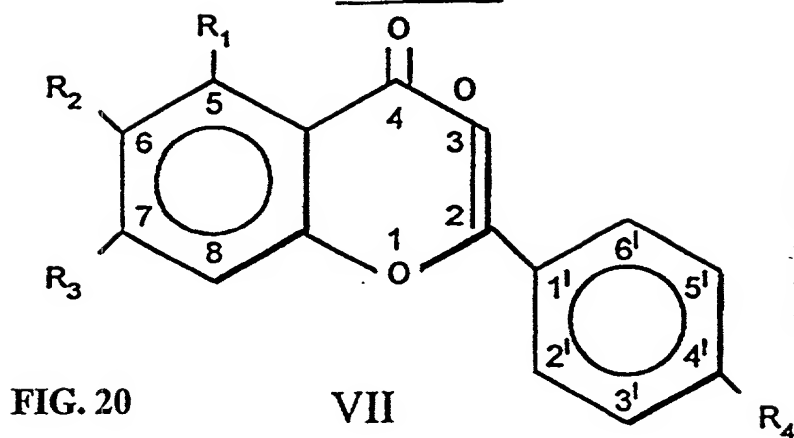
V



VI

FIG. 19

FLAVONES

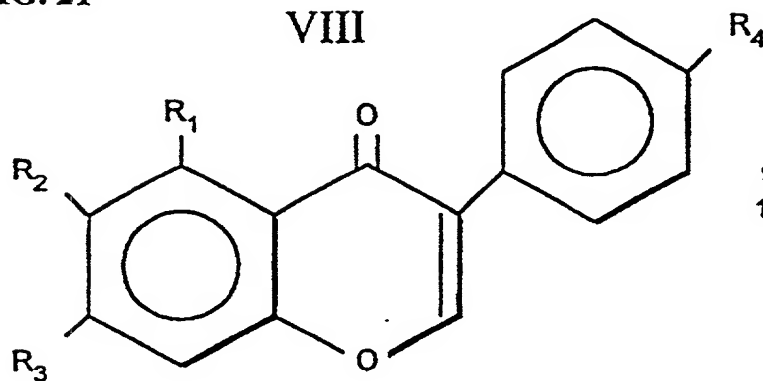


	R_1	R_2	R_3	R_4
1	H	OH	H	H
2	H	OSO ₂ NH ₂	H	H
3	H	H	OH	H
4	H	H	OSO ₂ NH ₂	H
5	OH	H	OH	H
6	OH	H	OSO ₂ NH ₂	H

ISOFLAVONES

FIG. 21

VIII

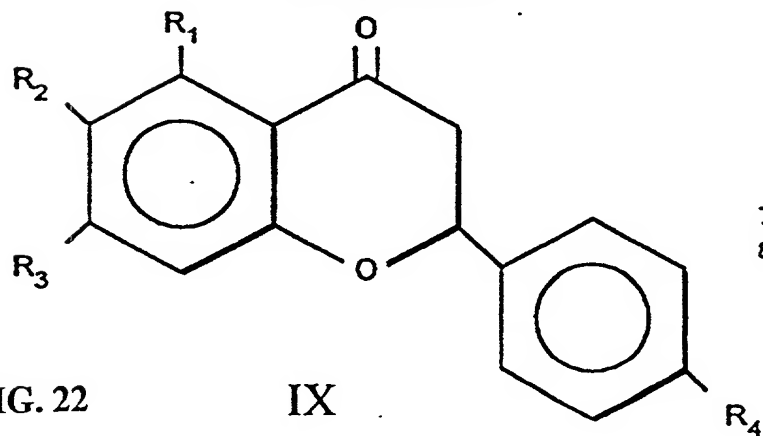


	R_1	R_2	R_3	R_4
9	OH	OH	H	OCH ₃
10	OH	H	OSO ₂ NH ₂	OCH ₃

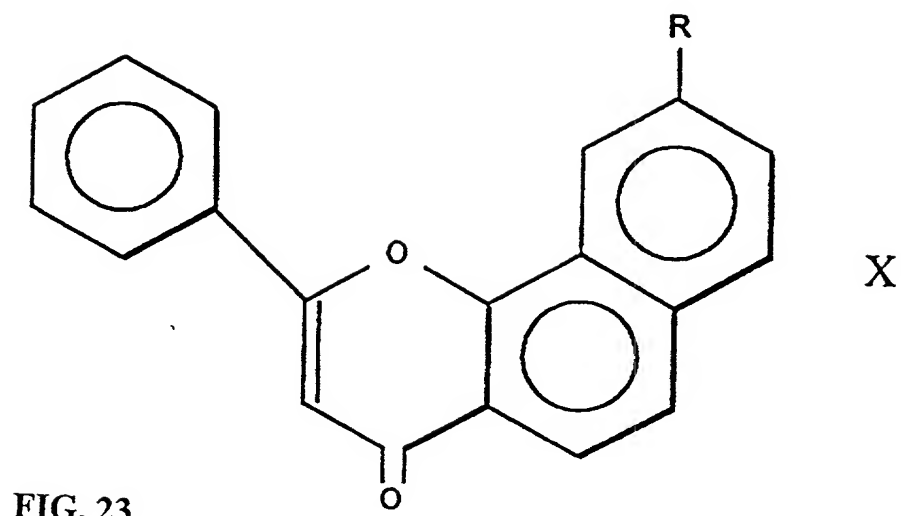
FLAVANONES

FIG. 22

IX



	R_1	R_2	R_3	R_4
7	OH	H	OH	OH
8	OH	H	OH	OSO ₂ NH ₂



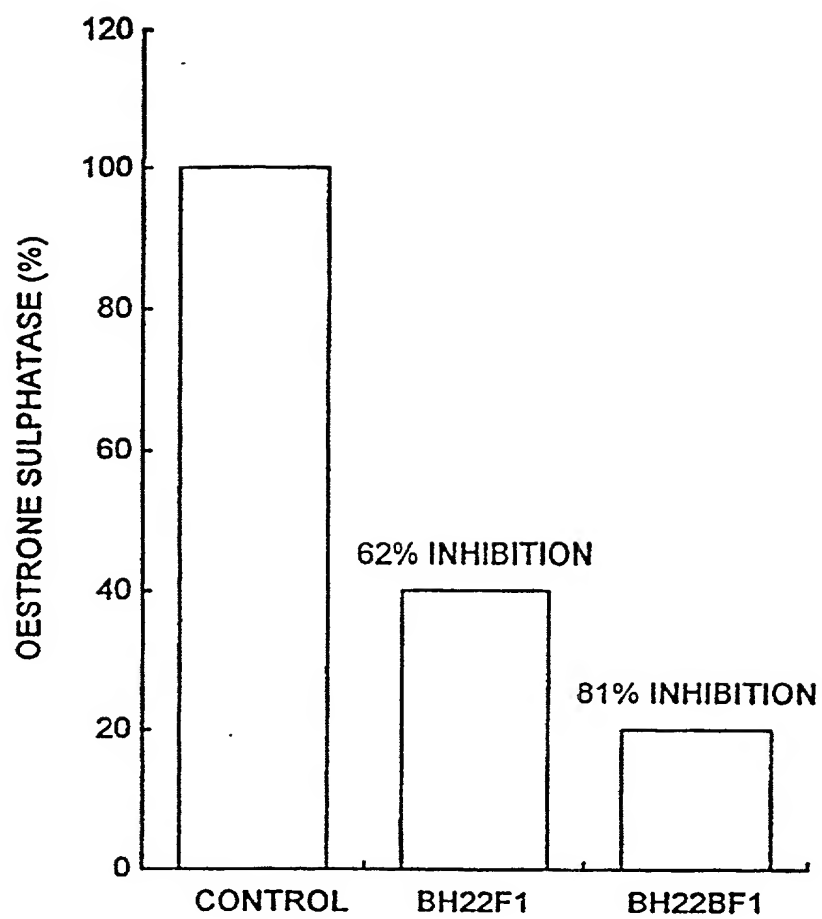


FIG. 24

2

X-B-A

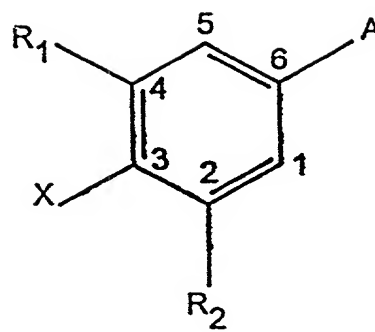


FIG. 26

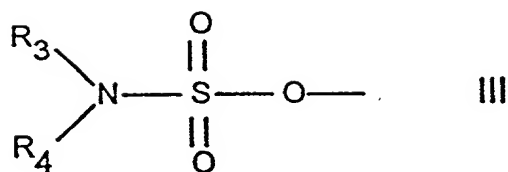


FIG. 27

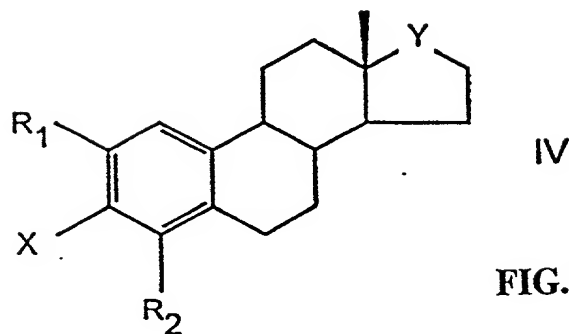


FIG. 28

[illegible]

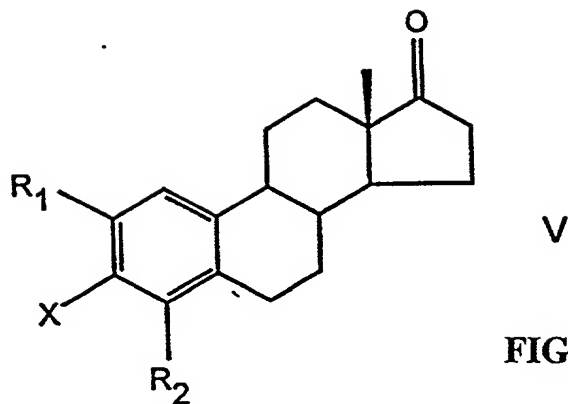
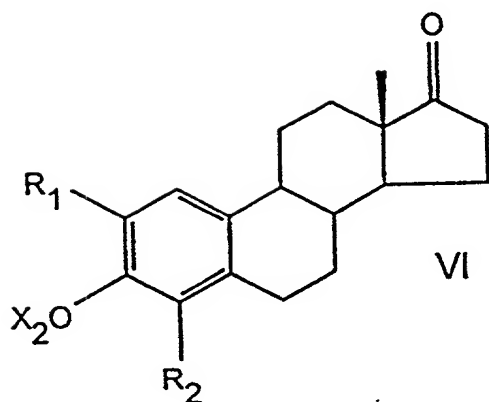
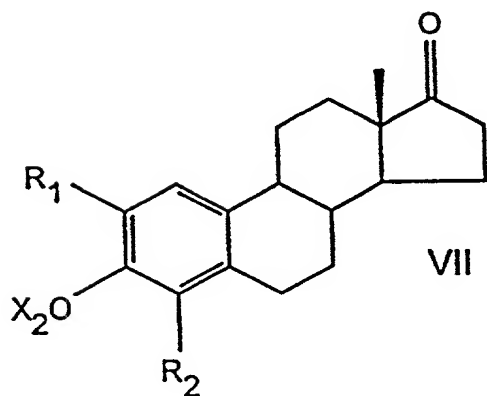


FIG. 29



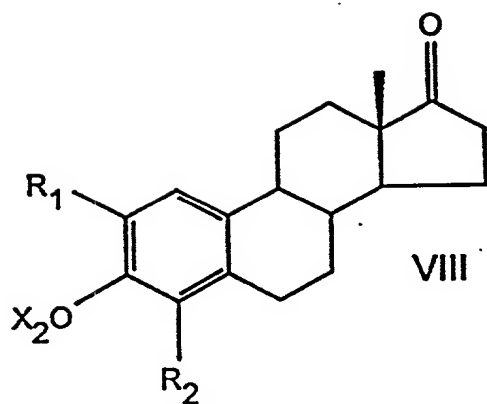
	$X_2 = -SO_2NH_2$	
	R_1	R_2
a)	$n-CH_2CH_2CH_3$	H
b)	H	$n-CH_2CH_2CH_3$
c)	$n-CH_2CH_2CH_3$	$n-CH_2CH_2CH_3$

FIG. 30



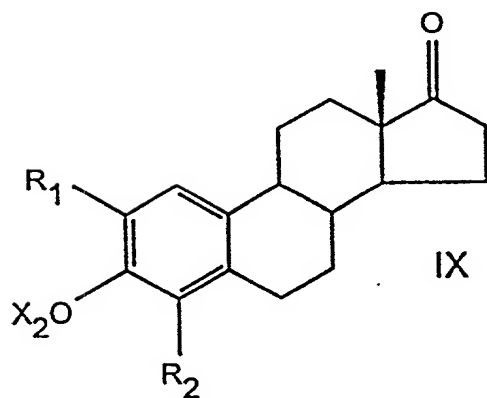
	$X_2 = -SO_2NH_2$	
	R_1	R_2
a)	$-CH_2CH=CH_2$	H
b)	H	$-CH_2CH=CH_2$
c)	$-CH_2CH=CH_2$	$-CH_2CH=CH_2$

FIG. 31



	$X_2 = -SO_2NH_2$	
	R_1	R_2
a)	H_3CO-	H
b)	H	H_3CO-
c)	H_3CO-	H_3CO-

FIG. 32



	$X_2 = -SO_2NH_2$	
	R_1	R_2
a)	$-NO_2$	H
b)	H	$-NO_2$
c)	$-NO_2$	$-NO_2$

FIG. 33

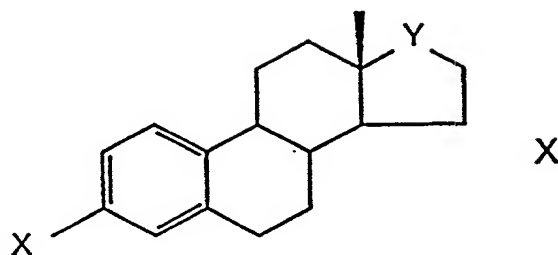


FIG. 34

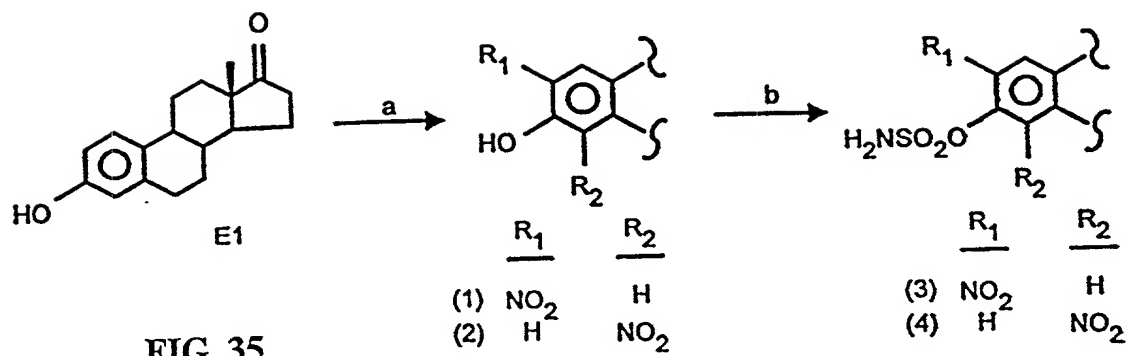


FIG. 35

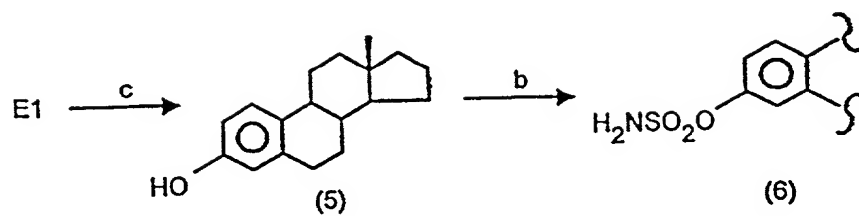


FIG. 36

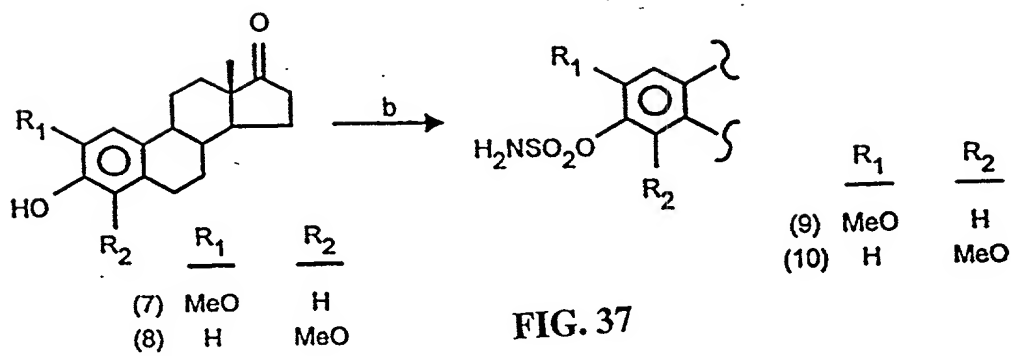
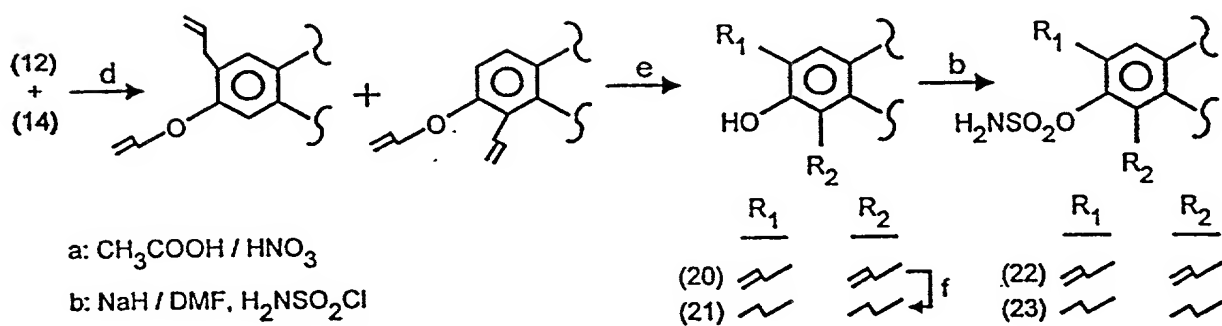
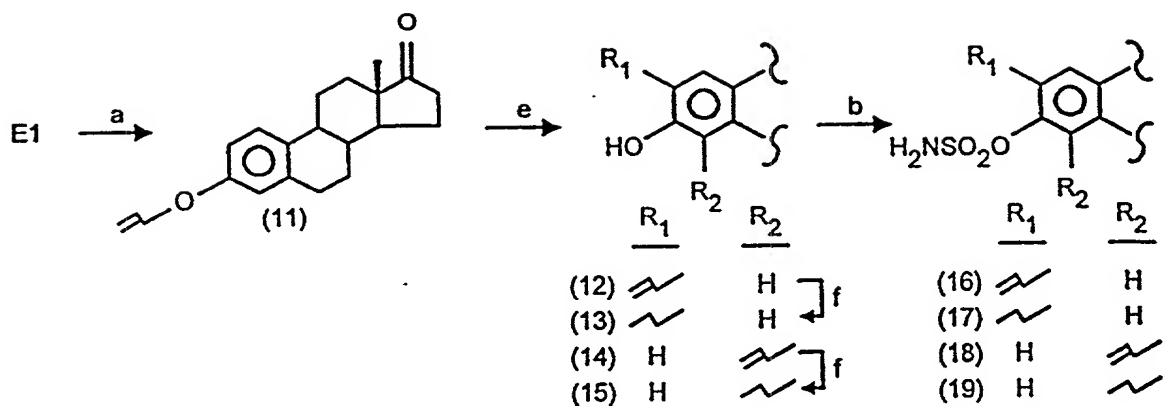


FIG. 37



a: CH_3COOH / HNO_3

b: $NaH / DMF, H_2NSO_2Cl$

c: $NH_2NH_2 \cdot H_2O, KOH / DIETHYLENE GLYCOL$

d: $NaH / DMF, \sim Br$

e: $N, N-DIETHYLANILINE, \Delta$

f: $Pd/C, H_2$

FIG. 38

IN VIVO INHIBITION OF OESTRONE SULPHATASE
BY NOMATE (0.1 mg/Kg/DAY FOR 5 DAYS)

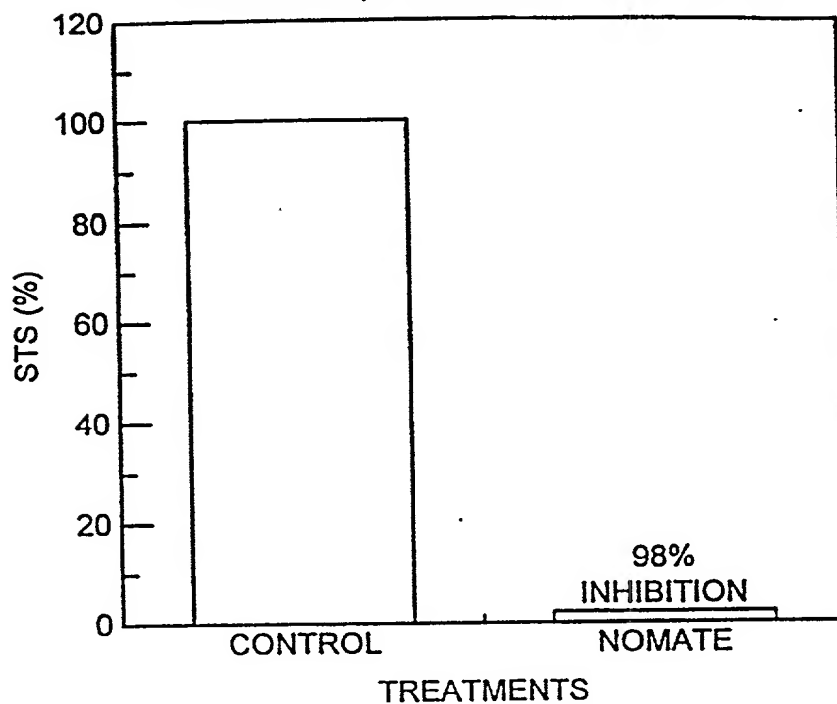


FIG. 39

LACK OF EFFECT OF NOMATE (0.1mg/Kg/DAY FOR 5
DAYS) ON UTERINE WEIGHTS OVARIETOMISED RATS

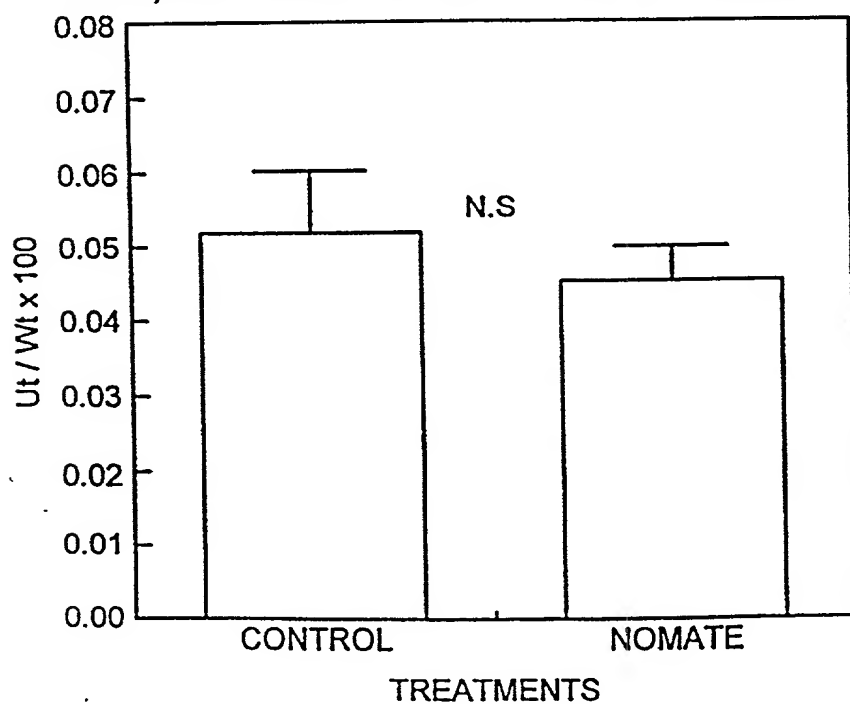


FIG. 40